

Colorado River Board of California

Board Meeting—October 10, 2018



Public Comment



Administration

- Consideration & Approval of Meeting Minutes, August 15, 2018 (ACTION)
- Consideration of draft schedule for 2019 Colorado River Board meetings
- AB 1234 Ethics Orientation Training due October 31, 2018



Colorado River Basin Water Report



October 10, 2018



Reservoir Storage

<u>Reservoir</u>	<u>MAF</u>	<u>Elev. In Feet</u>	<u>% of Capacity</u>
Lake Powell	11.04	3,592.35	45
Lake Mead	9.87	1,078.29	38
Total Sys. Storage	28.02 MAF		47
Sys. Storage Last Yr.	32.92 MAF		55

(As of October 1, 2018)

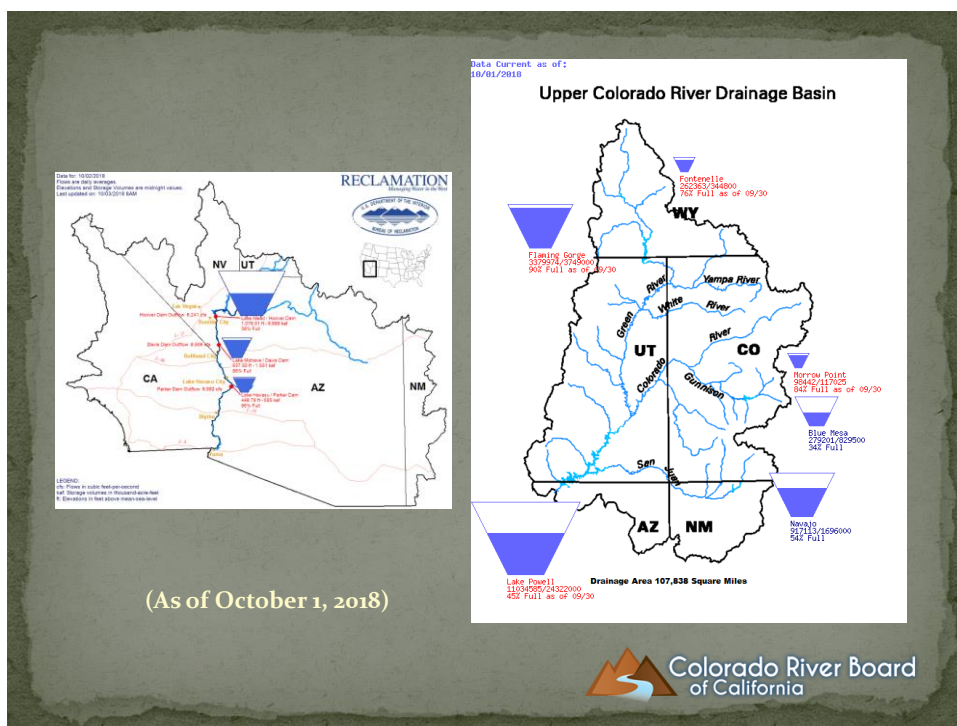
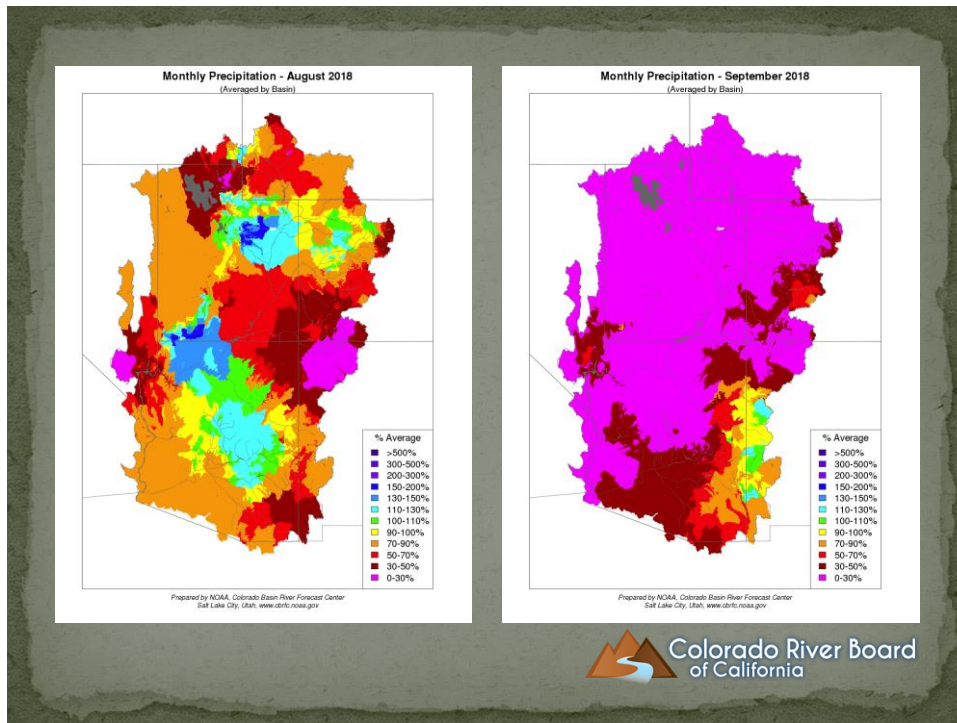


Precipitation

- October 1st marks the start of Water Year 2019
- Preliminary Observed WY-2018 Lake Powell inflow = 4.62 MAF (43% of normal)
- Preliminary Observed April – July 2018 = 2.60 MAF (36% of normal)
- August Observed Inflow = 0.01 MAF (2% of normal)
- September Inflow Forecast = 0.11 MAF (26% of normal)
- WY-2018 precipitation to date = 65%

(As of October 1, 2018)





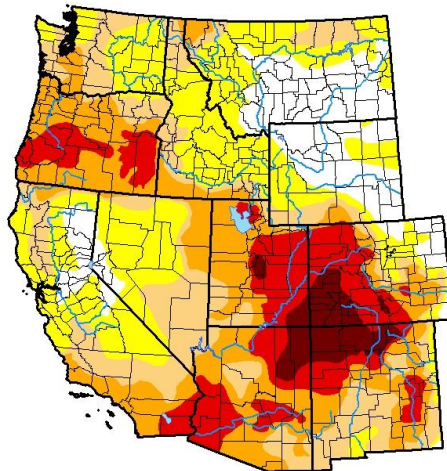
Regulatory Storage and Excess Flows

- Brock Reservoir: 124,813 AF through October 4th;
- Senator Wash: 64,971 AF through October 4th;
- Excess Flows to Mexico: 1,462 AF through October 8th; and
- Bypassed to Cienega: 75,481 AF through October 1st.

(Calendar Year data)



U.S. Drought Monitor West



September 25, 2018
(Released Thursday, Sep. 27, 2018)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	13.91	86.09	59.57	39.68	18.15	4.36
Last Week 09-18-2018	14.94	85.06	60.18	37.67	17.19	3.95
3 Months Ago 06-26-2018	30.59	69.41	47.99	31.42	16.70	4.65
Start of Calendar Year 01-01-2018	48.76	51.24	29.03	8.60	1.52	0.00
Start of Water Year 09-26-2017	55.72	44.28	21.01	8.72	5.30	2.17
One Year Ago 09-26-2017	55.72	44.28	21.01	8.72	5.30	2.17

Intensity

■ D0 Abnormally Dry ■ D3 Extreme Drought
■ D1 Moderate Drought ■ D4 Exceptional Drought
■ D2 Severe Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:
Jessica Blunden
NCEI/NOAA



<http://droughtmonitor.unl.edu/>

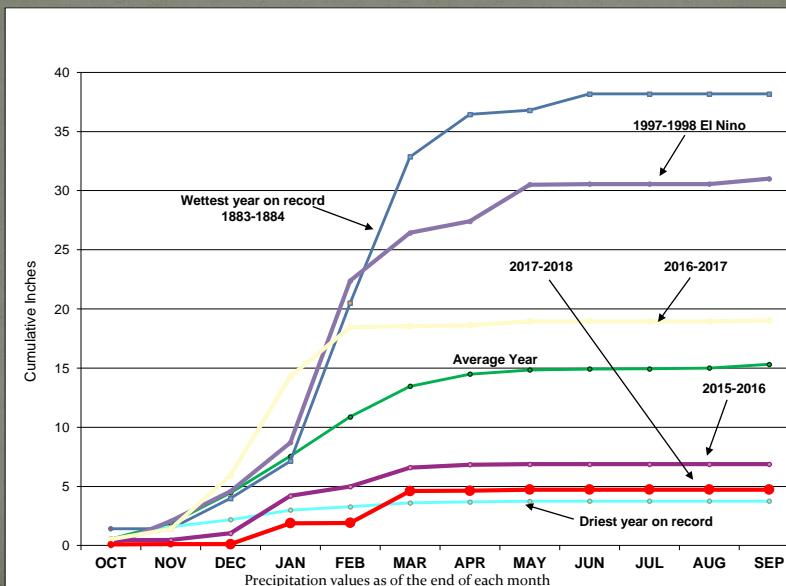
State & Local Agency Water Reports



October 10, 2018



Los Angeles Civic Center Precipitation



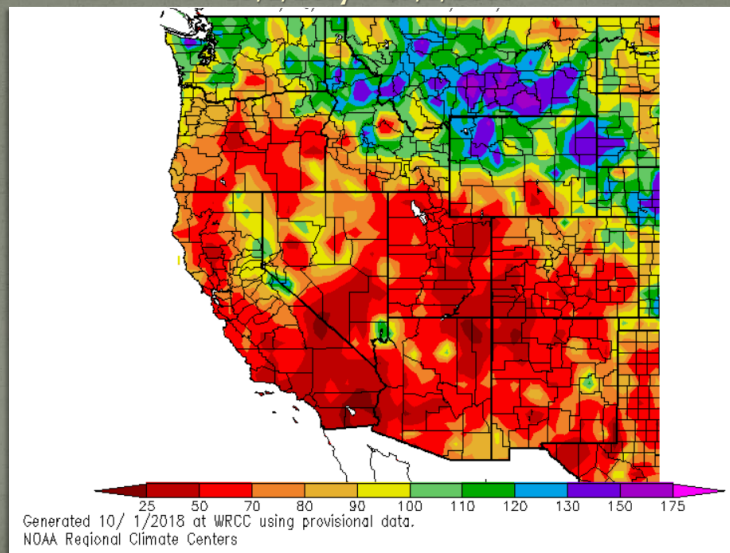
Precipitation at Six Major Stations in Southern California

From October 1, 2017 to September 30, 2018

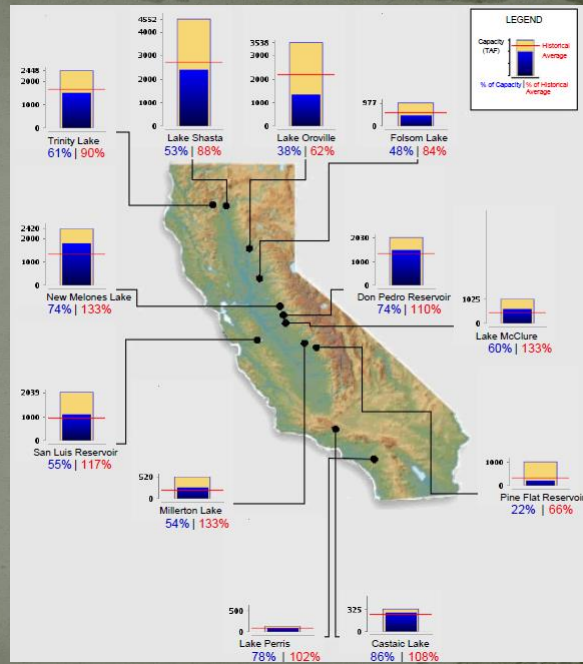
Station	Precipitation in inches		Average to Date	Percent of Average
	Sep	Oct 1 to Sep 30		
San Luis Obispo	0.00	5.47	22.44	24%
Santa Barbara	0.00	5.37	17.78	30%
Los Angeles	0.00	4.72	15.31	31%
San Diego	0.00	2.90	10.15	29%
Blythe	0.02	0.19	3.81	5%
Imperial	0.77	0.80	2.83	28%

Percent of Average Precipitation (%)

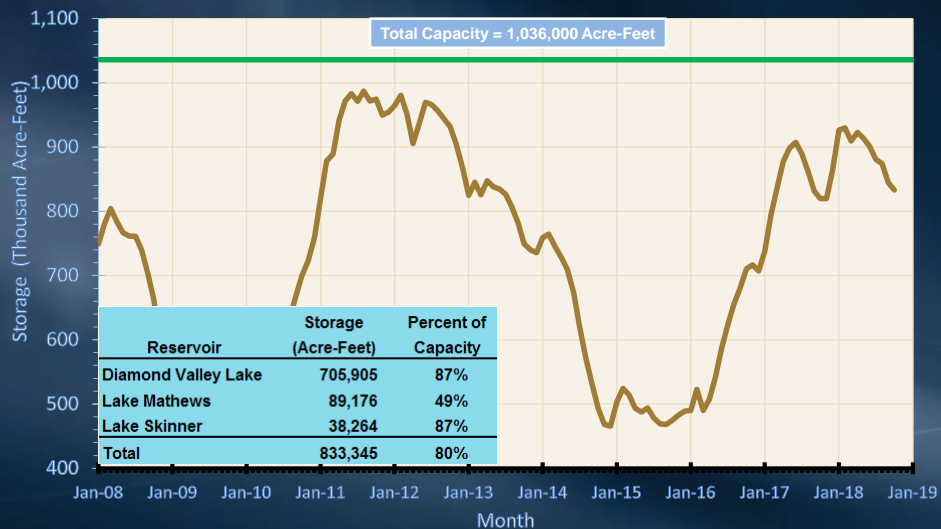
10/1/2017 – 10/1/2018

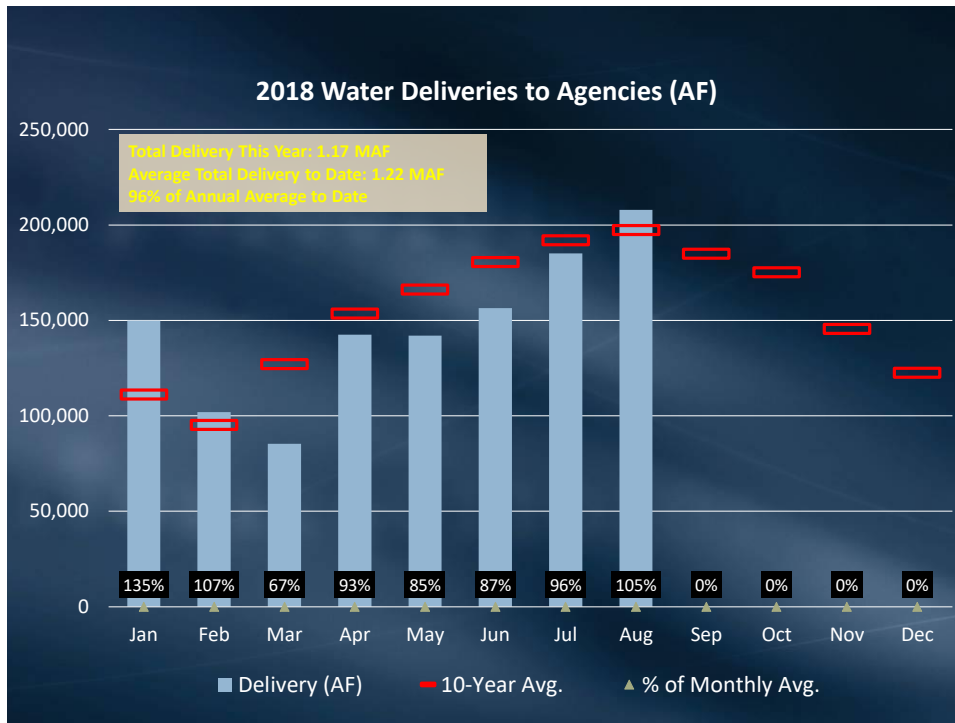


Current Reservoir Conditions October 2, 2018



MWD's Combined Reservoir Storage as of October 1, 2018 Lake Skinner, Lake Mathews, and Diamond Valley Lake





Status of Programs & Activities



October 10, 2018

Drought Contingency Planning

- Basin states and DOI met in Las Vegas, NV on September 18th
 - Representatives of Arizona and California provided status updates regarding efforts to resolve various intrastate issues—
 - **Arizona**—Central AZ agricultural community mitigation opportunities; Tribal ICS; “AZ Water Conservation Plan;” and maximize use of CAP “excess pool”
 - **California**—Continue to work on finalizing various interagency agreements for DCP participation and how California contributions would be made in the event that they are required during the interim period.



Drought Contingency Planning (cont.)

- The Basin States small coordinating workgroup provided a status update regarding the DCP documents and agreements—
 - Companion Agreement—DOI/Seven States Agreement for DCP implementation;
 - LB DCP Agreement—DOI, AZ, CA and NV Agreement for implementation of LB DCP;
 - LB DCP Operations Document—Describes how the LB DCP will be implemented with the '07 Guidelines; and
 - Upper Basin DCP documents including the Drought Ops Agreement & Demand Management Storage Program.
- The small coordinating workgroup has completed the final review drafts of the various agreements and submitted them for agency and stakeholder review.



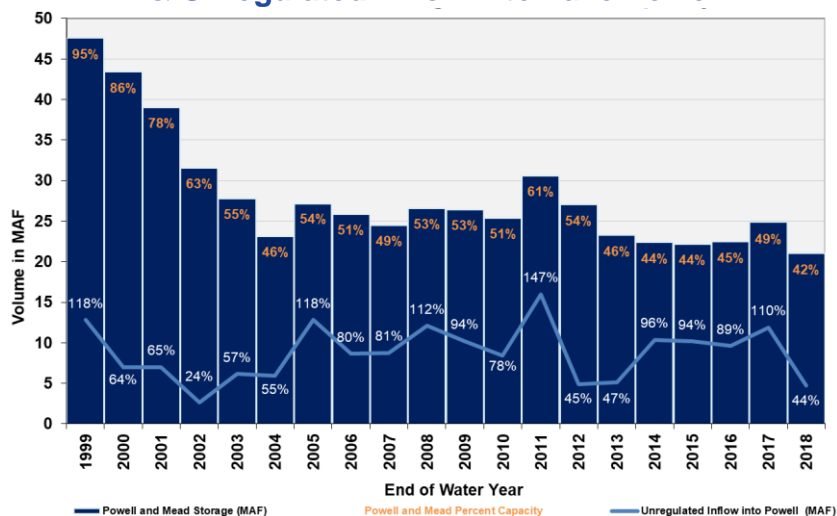
Drought Contingency Planning (cont.)

- Upper Basin representatives have also scheduled stakeholder briefings to provide an overview of the DCP package
- Reclamation will post the full DCP package as a final draft on its webpage on October 10th
- Reclamation plans to brief Tribes and NGOs soon



Colorado River Board
of California

Lake Powell & Mead Storage and Percent Capacity & Unregulated Inflow into Lake Powell

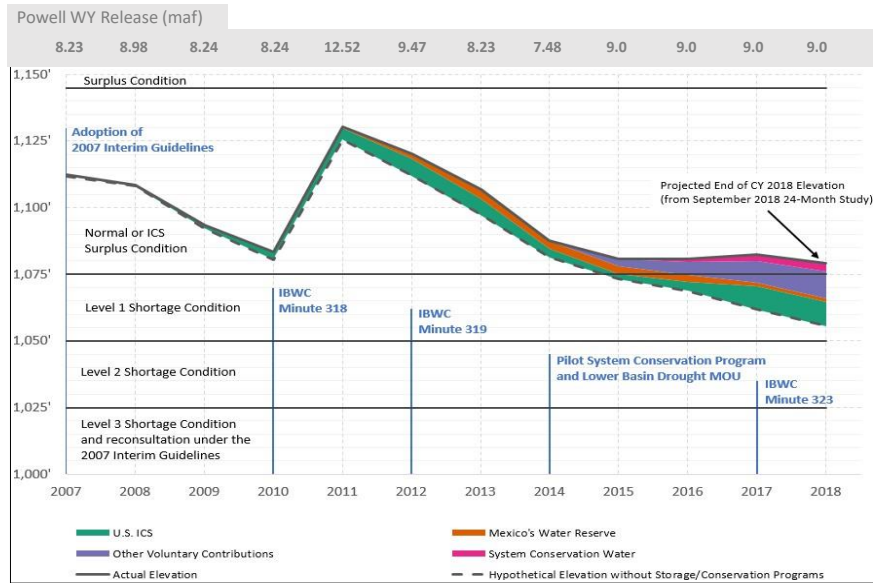


¹Values for Water Year 2018 are projected. Unregulated inflow is based on the latest CBRFC forecast dated September 17, 2018. Storage and percent capacity are based on the September 2018 24-Month Study.

²Percentages on the light blue line represent percent of average unregulated inflow into Lake Powell for a given water year. The percent of average is based on the period of record from 1981-2010.

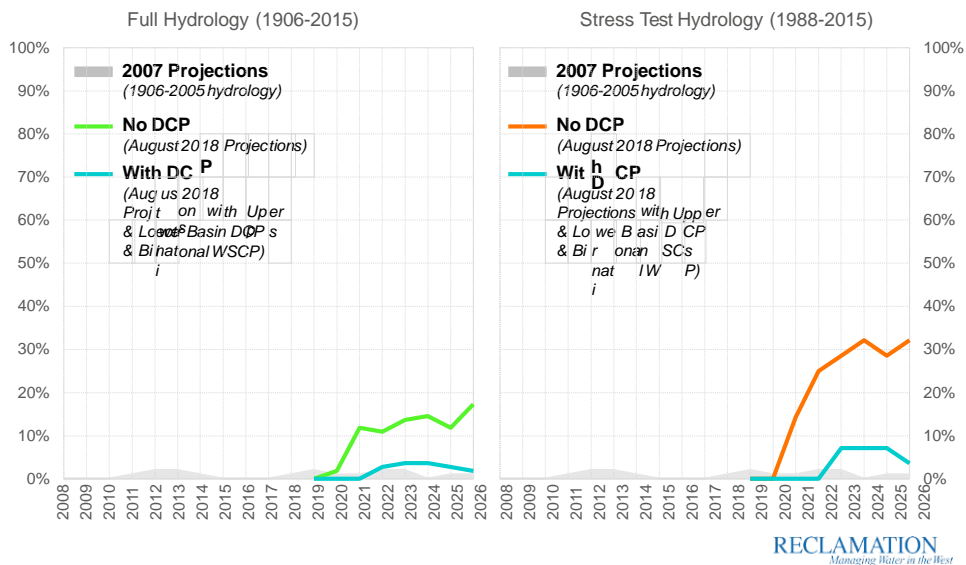
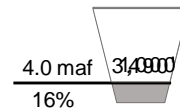
RECLAMATION
Managing Water in the West

Lake Mead End-of-Calendar Year Elevation

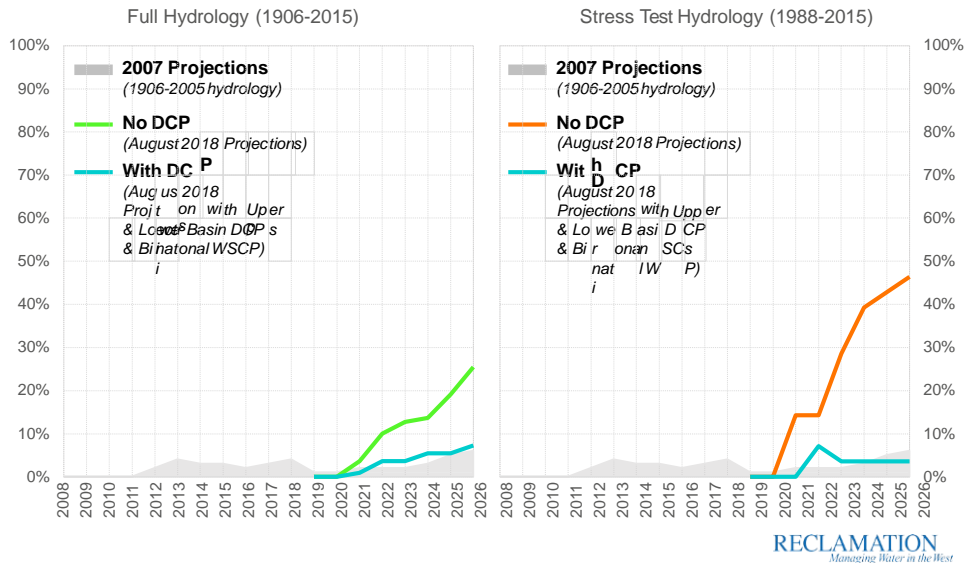
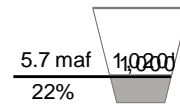


RECLAMATION
Managing Water in the West

Risk of Lake Powell < 3,490'



Risk of Lake Mead < 1,020'



LB DCP

- LB DCP Parties include DOI, Lower Division States and Section 5 contractors
- The term is through the remaining interim period of the '07 Guidelines and concludes on December 31, 2026, or when all ICS and DCP ICS accounts are reduced to zero
- DCP contributions are required from the parties based upon specified Lake Mead elevations
- DOI to create 100 KAF System water annually
- Establishes a process for making DCP contributions and ICS capacity-sharing among the states
- Establishes conditions for the delivery, borrowing and repayment of DCP ICS; and
- Increases cumulative ICS storage limits for each state by 200 KAF, and extends utilization of interstate banking provisions from Mead elevation 1,075' down to elevation 1,045'



Total Contemplated Lower Basin Volumes (in KAF)
2007 Interim Guidelines, Minute 323, Lower Basin Drought Contingency Plan &
Binational Water Scarcity Contingency Plan

Lake Mead Elevation (ft msl)	2007 Interim Guidelines Shortages		Minute 323 Delivery Reductions	Total Combined Reductions	DCP Contributions				Combined Volumes by Country US: (2007 Interim Guidelines Shortages + DCP Contributions) Mexico: (Minute 323 Delivery Reductions + Binational Water Scarcity Contingency Plan Savings)					Total Combined Volumes
	AZ	NV	Mexico	Lower Basin States + Mexico	AZ	NV	CA	Mexico	AZ Total	NV Total	CA Total	Lower Basin States Total	Mexico Total	Lower Basin States + Mexico
1,090 - >1,075	0	0	0	0	192	8	0	41	192	8	0	200	41	241
1,075 - >1,050	320	13	50	383	192	8	0	30	512	21	0	533	80	613
1,050 - >1,045	400	17	70	487	192	8	0	34	592	25	0	617	104	721
1,045 - >1,040	400	17	70	487	240	10	200	76	640	27	200	867	146	1,013
1,040 - >1,035	400	17	70	487	240	10	250	84	640	27	250	917	154	1,071
1,035 - >1,030	400	17	70	487	240	10	300	92	640	27	300	967	162	1,129
1,030 - >1,025	400	17	70	487	240	10	350	101	640	27	350	1,017	171	1,188
<1,025	480	20	125	625	240	10	350	150	720	30	350	1,100	275	1,375

The US will work to create or conserve 100,000 af or more of Colorado River system water on an annual basis to contribute to conservation of water supplies in Lake Mead and other Colorado River reservoirs. All actions taken by the United States shall be subject to applicable federal law, including availability of appropriations.

LB DCP (cont.)

- Benefits of the LB DCP—
 - Reduce the risk of Mead falling below 1,020' to 6-7%, or about the same risk as when the '07 Guidelines were adopted;
 - Provide increased flexibility for the storage and access of ICS supplies;
 - Provides certainty for Mead operations during interim period;
 - Provides consultative process among the states and DOI associated with basinwide operations; and
 - LB DCP provides for activation of Section IV of Minute No. 323—Binational Water Scarcity Contingency Plan

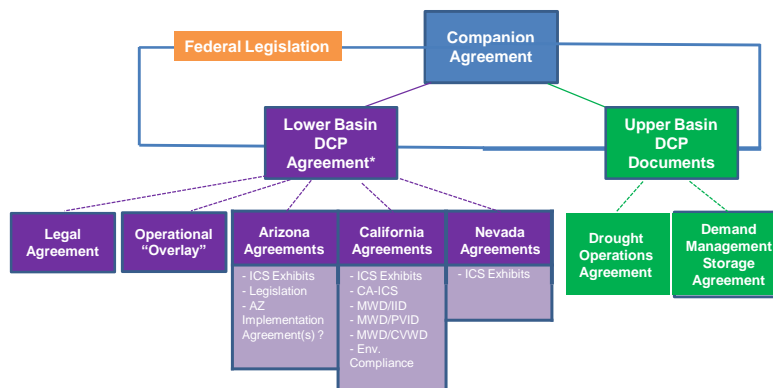


LB DCP (cont.)

- California Agreements necessary—
 - Contractor agreements among participating agencies (CVWD, IID, MWD and PVID);
 - Preparation of new ICS exhibits (CVWD, IID and MWD);
 - Amendment of California ICS Agreement
 - Preparation of a new Lower Division States ICS Contribution and Capacity Storage Sharing Agreement
- Schedule—
 - Conclude intra- and inter-state negotiations/agreements by late-fall;
 - Approve full DCP package by the end of the year
 - Seek federal legislation in lame-duck session?
 - Arizona state legislation in early-2019



Colorado River Basin Drought Contingency Plan Documents and Agreements



*Activates Section IV of Minute 323 (Binational Water Scarcity Plan)

Minute No. 323 Implementation

- Salinity Work Group met in San Ysidro, CA on October 4th
- Reviewed the Work Group's scope-of-work:
 - Restoration of the full canal capacity of 220 cfs for the Sanchez-Mejorada Canal at SIB
 - Binational establishment of real-time salinity monitoring protocols and processes
 - Installation of electrical conductivity measurements and monitoring equipment at key points, incl. Imperial and Morelos Dams and SIB
 - Work Group will develop additional reporting tools to make real-time data available to operators in both countries



Colorado River Board
of California

Minute No. 323 Implementation

- The Minute No. 323 Oversight Group and binational hydrology work group have scheduled meetings in Coronado, CA on October 16-17
- Environmental Work Group will meet in San Ysidro, CA on October 23rd and hold a workshop in Mexicali on October 24-25 to review "lessons learned" associated with the implementation of environmental elements of Min. No. 319



Colorado River Board
of California

Salinity Control Program

- Work Group met on September 11-13 in Grand Junction, CO
- Work Group is starting the 2020 Triennial Review
 - Develop salt loading scenarios in February
 - Receive additional directions from the Forum in Fall 2019
- Paradox Valley Unit EIS Schedule—
 - Draft EIS in July/August 2019
 - Final EIS in late-2019 – early-2020
 - Record of Decision in May 2020
 - Zero-liquid Discharge technology pilot tests done
- Work Group drafting a narrative for a Pah Tempe Springs project for discussion at the February Work Group meeting
- Forum and Advisory Council to meet in Oct 29-30 in Santa Fe, New Mexico. Work Group to meet in December and February



Glen Canyon Dam Adaptive Management Program

- Adaptive Management Work Group met August 22-23 in Flagstaff
 - Recommended approval of FY19 budget and work plan
 - “Bug flows” completed August 31; initial results are positive
 - Humpback chub numbers appear stable, rainbow trout increasing
- Considering high flow experiment (HFE) in November
- Technical Work Group to meet via webinar on October 10



Lower Colorado River Multi-Species Conservation Program

- Work Group met, via conference call, on September 24th
 - Discussed possible conservation easement for 630 ac of property in Palo Verde Valley, at a cost of \$9.3 m
- Steering Committee to meet October 24th in Las Vegas



Colorado River Board
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Announcements



Washington, D.C. Updates

- Lake Powell Pipeline
 - On September 20th, FERC notified Utah Division of Water Resources (UDWR) of its determination that only hydropower components of the proposed pipeline fall within its jurisdiction
 - The FERC ruling will require addition review and management by UDWR, incl. separating securing right-of-way permits for the pipeline to cross federal and possibly tribal lands
- U.S. Fish and Wildlife Service
 - On October 4th, the US FWS announced it plans to propose reclassification of the razorback sucker from endangered to threatened under the Endangered Species Act



Washington, D.C. Updates

- Appropriations:
 - On September 21st, the Energy and Water; Legislative Branch; and Military Construction spending bills were enacted into law
 - The Energy and Water Appropriations bill provides funding for Reclamation, the Army Corps of Engineers and Department of Energy, incl. the Western Area Power Administration
 - The bill provides funding for Reclamation to carry out the Glen Canyon Dam Adaptive Management Program as well the two Upper Colorado Recovery programs



Washington, D.C. Updates

- On September 28th, a second minibuss was signed into law, the Department of Defense, Labor, Health and Human Services appropriations bill
 - This minibuss also contained a provision that averts the potential for a government shutdown by funding the rest of the federal government, the seven remaining spending bills, through a continuing resolution until December 7th
- WRDA Authorization:
 - The Senate will take up the House passed version of the 2018 WRDA Act sometime during the Fall with no changes to the House passed version



Washington, D.C. Updates (cont.)

- Farm Bill update-
 - Both the House and Senate passed their respective version of the 2018 Farm Bill
 - Conference committee negotiations between the House and Senate have broken down
 - Authorizations for several Farm bill programs including many Conservation Title programs have lapsed; majority of other programs, including nutrition benefits programs, remain authorized until the end of the year
 - Congressional leaders are confident that the issues will be worked out during the lame duck session
- Senate Energy and Natural Resources
 - The Senate Energy and Natural Resources



Washington, D.C. Updates (cont.)

- Senate Energy and Natural Resources Committee
 - The Committee moved Sen. Jim Risch's (R-ID) Title Transfer bill, S. 2560 out of Committee
 - The bill would make it easier for irrigation districts to obtain titles on Reclamation projects that the districts operate and have repaid
- Remainder of the 115th Congress
 - The House is in recess until after November midterm elections. The Senate will remain in session to work on the Supreme Court nomination, opioids bill, appropriations, and WRDA.
 - It is unlikely that all of these agenda items will be completed on or before the Senate adjourns at the end of October

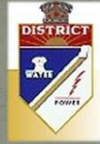


NEXT MEETING

November 14, 2018
 10:00 a.m.
 Ontario Gateway Hotel
 Ontario, California



Six Agency Committee



October 10, 2018

Six Agency Committee

- Approval of the August 15, 2018 Meeting Minutes (ACTION)
- Approval of second installment of funding for the Colorado River Board expenses for Fiscal Year 2018-2019 (ACTION)
- Authorization to execute Water Year 2019 Final Activity Exhibit for the Agreement Establishing Programmatic Funding for Weather Modification, and approve an expenditure up to \$262,500 for weather modification activities for the Winter Season 2018-2019 (ACTION)
- Approval of Funding for Hydrology Modeling Projects (ACTION)
- Other Business/Future agenda items

Colorado River Authority

October 10, 2018

CRA



Colorado River Authority

- Approval of July 11, 2018 Meeting Minutes (ACTION)
- Authorization to provide cost-share of up to \$1,700 for Basin States luncheon, July 31, 2018, Midway, Utah. (ACTION)
- Approval of advance of \$60,000 to Tom Levy for development of the Spring 2019 Yuma area Tour (ACTION)
- Authorization to provide up to \$1,500 for cost-share of hosting binational Minute No. 323 Oversight Group and Hydrology Work Group meetings, Coronado, CA (ACTION)
- Other Business/Future agenda items

CRA